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Please amend the following claims:

5. (amended) A software development system as in claim 3, wherein the set of components [displayed] on pages generated from a single page template can vary for different requests of the same page template.

6. (amended) A software development system for use in a data network which couples a server computer to a client computer, wherein the client computer includes a first software program for generating a request for one or more pages from the server computer and for displaying pages, and wherein the server computer includes a second software program for receiving and processing the request from the client computer, for generating and storing pages, and for transmitting pages to the client computer in response to requests, the server computer further comprising:

a data store,

a plurality of components residing in the data store, including [interactive] components that react interactively on user input by executing instructions on the server; [organized into component classes;]

a plurality of page templates residing in the data store, at least one page template having at least one selected component incorporated therein; and

a server processor controlled by a third software program, said program providing instructions for selecting a page template based on the request from the client computer and instructions for generating a page from the page template for transmission to the client computer.

9. (amended) A method for generating documents for display by a browser using [interactive] components that react interactively on user input by executing instructions on a server, comprising the following steps for execution on the server upon a page request:

assigning a unique identifier to at least one of the [interactive] components; and  
embedding the unique identifier into a generated page.

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10. (amended) The method of claim 9, further comprising storing data on [a]the server representing [for] at least one of the [interactive] components.

11. (amended) The method of claim 10, further comprising:  
analyzing [a] the request sent by the browser for unique identifiers; and  
calling a function for the interactive components referenced by at least one of the unique identifiers contained in the request.

22. (amended) A [server] computer running an application [on a data network] to develop and maintain applications using a web browser, comprising:  
an editor operable within the web browser for inserting, deleting, and modifying components on document templates; and  
a page generator for processing document templates and for generating documents from the document templates that are understandable by the web browser.

23. (amended) A [server] computer as in claim 22, wherein the editor operates functional applications in an edit mode permitting editing directly in the web browser.

24. (amended) A [server] computer as in claim 23 wherein at least one of the components can react on subsequent page requests containing user responses by executing [some] selected instructions [on the server].

25. (amended) A [server] computer as in claim 24, wherein the [server] computer further comprises:  
a store of component classes, each component class implementing one component kind;  
and  
a parser able to detect components marked on page templates;  
wherein the page generator works upon a page request using component classes to generate browser code; and

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wherein the editor is capable of showing a menu of components for insertion into the page templates.

31. (amended) The system of claim 30 [26], wherein the scripts are generated specifically for the second document and encapsulate information which is incorporated into the first document.

33. (amended) A system as in claim 32, wherein the information incorporated into the second [first] document is used on the client computer in order to send change requests for the first [second] document to the server.

34. (amended) A method for generating a page for display in a browser from a page template containing components, comprising:

for each component denoted on the page template, identifying a component class of the [associated] component; and

based on data contained in a request initiated by the browser [creating or reusing an] storing a first object of the component class representing the component.

35. (amended) The method of claim [34]44, further comprising calling a method of said component class to generate browser code, said method being the constructor.

37. (amended) The method of claim 34, further comprising, for [all interactive components] at least one component kind, for all components denoted on the page template having said component kind;

generating a unique identifier;

assigning said unique identifier to said object, and

embedding said unique identifier into the browser code.

38. (amended) The method of claim 37, further comprising:

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inserting objects for the [interactive] components of at least said component kind into a list of listening components;

working through all objects stored in the list of listening components whose [bid] unique identifier occurs inside a name in the form data set; and

calling a method of at least one of these objects.

Please add the following new claims:

-- 41. (new) A software development system as in claim 1, the editor comprising a client part for execution on the client computer. --

-- 42. (new) A software development system as in claim 41, wherein the client part comprises instructions that are automatically downloaded from the server prior to editing. --

-- 43. (new) A system as in claim 26, additionally comprising at least one script for automatic download to the client, said script working in cooperation with the second document to permit editing of the first document.

--44. (new) The method of claim 34 wherein storing an object comprises creating a new object as necessary. --

--45. (new) The method as in claim 34 wherein components are denoted on page templates using tag syntax.--

--46. (new) The method as in claim 45 wherein the tag name identifies a component class.--

--47. (new) The method as in claim 36 wherein components are denoted on page templates using tag syntax, wherein the tag name identifies a component class.--

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--48. (new) The method as in claim 36 wherein the component object, if found, is reused to store the first object.--

--49. (new) The method as in claim 36 wherein in case a component has a name attribute but no component object is found a new object is created and stored under said name in session memory.--

--50. (new) The method as in claim 49 wherein new objects are created for all components not having a name attribute. --

-- 51. (new) A system for editing components on web document templates for use with a first software program including first instructions for generating a document request to obtain at least one generated document from a second software program and for displaying the generated document, the second software program capable of receiving and processing a document request and of transmitting first documents to the first software program in response to requests, said system comprising:

a plurality of components,

a plurality of document templates,

the second software program transmitting, while processing selected requests, second documents to the first software program that make the first software program display a user interface to perform editing functions maintaining components on document templates,

a third software program used by the second software program while processing selected document requests, the third software program including third instructions for modifying document templates in order to perform an editing function. --

-- 52. (new) The system of claim 51, wherein components include fourth program instructions including steps to generate browser code prior to transmission to the first software program. --

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-- 53. (new) A system in claim 52 running on a data network, coupling a server computer and a client computer, the first program running on the client computer, the second program running on the server computer.—

-- 54. (new) A system in claim 52 wherein second documents are HTML pages with embedded scripts.—

-- 55. (new) The system of claim 52, wherein the edit function includes adding a component to a document template, removing a component from a document template, and modifying attributes of a component on a document template. --

-- 56. (new) The system of claim 52, further comprising a fifth software program used by the second software program while processing selected document requests, the fifth software program including fifth instructions for generating generated documents from document templates thereby calling fourth program instructions. --

-- 57. (new) The system of claim 56, wherein the generated document includes, if requested in edit mode, edit features for interpretation by the first software program. —

-- 58. (new) The system of claim 56 further comprising instructions to allow the user to click on the generated page to select items to perform edit functions on.

-- 59. (new) A software development system for dynamic web documents comprising  
an editor program for editing dynamic web documents,  
a document generator for generating generated documents from dynamic web documents,  
the editor program comprising first instructions for requesting the document generator to process a dynamic web document leading to a generated document,  
the editor program further comprising second instructions for displaying at least some information items contained on said generated document in a view which allows the user to select an item to which a modification function will be applied,

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the editor program further comprising third instructions to modify the dynamic web document. --

-- 60. (new) The software development system of Claim 59 running on a data network, which couples a server computer and a client computer, the document generator running on the server computer the editor at least partly running on the client computer. --

-- 61. (new) The software development system of claim 60, wherein the document generator further comprises fourth instructions to collect edit-information for use by the editor, said fourth program instructions for execution during document generation. --

-- 62. (new) The software development system of claim 60, wherein the editor uses a web browser for displaying said view. --

-- 63. (new) The software development system of claim 60, able to automatically repeat requesting the document generator to process the dynamic web document if required.--

-- 64. (new) The software development system of Claim 59 further comprising a plurality of components marked on the dynamic web document, said components including fifth instructions for use by the document generator, said fifth instructions for generating browser code. --

-- 65. (new) The software development system of claim 64, wherein the editor uses a web browser for displaying said view. --

-- 66. (new) The software development system of claim 64, wherein modification functions include insert of a component, delete of a component, and modify a component. --

-- 67. (new) The software development system of claim 59, wherein said view looks, except for editing features, similar to the end-user view of the generated document. --

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-- 68. (new) The software development system of claim 59, wherein the document generator further comprises sixth instructions to collect edit-information for use by the editor, said sixth instructions for execution during document generation. --

-- 69. (new) The software development system of claim 68, wherein the editor uses the edit-information to correctly modify the dynamic web document. --

-- 70. (new) The software development system of claim 69, further comprising a plurality of components marked on the dynamic web document, wherein the edit-information comprises position information on the components contained in the document template. --

-- 71. (new) The software development system of claim 59, wherein the editor uses a web browser for displaying said view. --

-- 72. (new) The software development system of claim 71, wherein first instructions comprise seventh instructions for initiating a reload in the browser. --

-- 73. (new) The software development system of claim 59 the editor program further comprising eighth instructions to display information on at least one element of the dynamic web document, that is replaced during document generation, without requesting the document generator to regenerate the generated document. --

-- 74. (new) A software development system for document templates that are intended for transformation into generated documents for display by a first software program, the first software program including first instructions for generating a document request to obtain at least one generated document and for displaying the generated document, comprising

a plurality of components, that include instructions to generate browser code prior to transmission to the first software program,

an editor capable of performing edit functions maintaining components on document templates, the components capable to cooperate with the editor,



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a plurality of document templates having components denoted thereon,  
a document generator comprising second instructions to, upon a document request,  
generate generated documents from document templates for display by the first software program  
wherein the set of components on the generated document can vary for different document  
requests for the same document template. --

-- 75. (new) The software development system as in claim 74, wherein edit function  
comprises adding a component, modifying a component, and deleting a component. --

-- 76. (new) The software development system as in claim 74, wherein tag syntax is used to  
denote components on document templates, whereby the tag name identifies the component kind.  
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-- 77. (new) The software development system of claim 74 running on a data network,  
which couples a server computer and a client computer, the document generator running on the  
server computer the editor running, at least partly, on the client computer. --

-- 78. (new) The software development system as in claim 74, wherein a component, that  
can react interactively on subsequent document requests, can be excluded from the generated  
document.--

79. (new) The software development system as in claim 78 further comprising third  
instructions to prevent excluded components from reacting on subsequent document requests.

-- 80. (new) A software development system as in claim 79, third instructions comprising  
fourth instructions to, upon a first document request, store information in session memory on all  
components, that are present on the generated document, and fifth instructions to, upon  
subsequent document requests, only react on components that have been remembered in session  
memory thereby avoiding tampering with excluded components on the side of the first program. -  
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-- 81. (new) A software development system as in claim 74 wherein at least one document template has a first and a second component denoted thereon in a way that the first component contains the second component, the first component containing sixth instructions to decide about exclusion of the second component from the generated document. --

-- 82. (new) A software development system as in claim 74 the editor able to provide an editable view taking the varying set of components into account. --

-- 83. (new) A software development system as in claim 74 the editor able to provide an editable view that includes and excludes selected components similarly as the final application --.

-- 84. (new) A software development system as in claim 74 wherein the generated document contains more components than the document template for at least one document request. --

-- 85. (new) The software development system as in claim 74, wherein multiple instances of a third component denoted on the document template can be included in the generated document.--

-- 86. (new) The software development system as in claim 85, further comprising seventh instructions to assign a unique identifier to each component instance, whereby the third component includes eighth instructions to qualify names generated into the browser code with the unique identifier. --

-- 87. (new) A software development system as in claim 74, wherein at least one document template has a fourth and a fifth component denoted thereon in a way that the fourth component contains the fifth component, the fourth component containing ninth instructions to decide about how many instances of the fifth component are included into the generated document. --

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-- 88. (new) A software development system as in claim 74 the editor able to provide an editable view that include multiple instances of components similarly as the final application --.

-- 89. (new) A software development system as in claim 74 wherein at least one sixth component includes tenth instructions to display the sixth component, ninth instructions being used to display the sixth component during editing as well as during normal use of the component. --

-- 90. (new) An editor for use with a web browser, the editor allowing the user to edit a document displayed by the browser, wherein clicking on said document displayed in the browser window can initiates editing functions, and scripts contained in said document staying functional, the editor comprising a first software program for execution within the browser providing the user interface of the editor. --

-- 91. (new) The editor as in claim 90 using at least two windows, a first browser window displaying said document and a second window for displaying information on an element contained in said document. --

-- 92. (new) The editor in claim 90 further comprising a second software program for modifying documents in cooperation with the first software program. --

-- 93. (new) The editor as in claim 92 further comprising a third program for transforming the document into a generated document thereby adding editing features, the browser displaying the generated document looking similar to the original and interpreting the editing features. --

-- 94. (new) The editor as in claim 93 wherein said document is a dynamic document having components denoted thereon, the third software program further comprising instructions for generating browser code for components. --

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-- 95. (new) The editor as in claim 94 wherein the browser together with the first software program is running on a client computer connected to a server computer via a data network, wherein the second and the third software program run on the server computer. --

-- 96. (new) The editor in claim 90 wherein links contained in said document stay functional allowing the user to browse and edit at the same time. --

-- 97. (new) A system for displaying dynamically generated documents in a data network coupling a server computer to a client computer, wherein the client computer has a first software program including first instructions for generating a document request to obtain at least one generated document from the server computer and for displaying the generated document, comprising:

a plurality of components for execution on the server computer, at least one first component including second program instructions to generate browser code and third program instructions for execution on the server which are initiated by the user interacting with the first component, and,

fourth program instructions on the server computer for, based on data contained in a document request initiated by the first software program on the client computer, generating generated documents for transfer to the client computer and display by the first software program, thereby calling second program instructions of components. --

-- 98. (new) The system of claim 97, the server computer further comprising fifth program instructions for analyzing said data and for calling third program instructions of first component as necessary. --

-- 99. (new) The system of claim 98, further comprising a plurality of document templates residing in the data store, at least one of the document templates having at least one second component denoted thereon. --

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- 100. (new) The system of claim 99, wherein tag syntax is used to denote the second component, whereby the tag name identifies a component. --
- 101. (new) The system of claim 99, wherein at least one third component denoted on a document template contains the first component. --
- 102. (new) The system of claim 101, wherein third components implementation scheme includes logic to decide how often to insert the first component into the generated document. --
- 103. (new) The system of claim 98, the server computer further comprising sixth program instructions for, based on the document request, deciding to insert more than one instance of the first component into the generated document. --
- 104. (new) The system of claim 103, making sure that multiple instances of the first component do not interfere by qualifying names generated into the browser code using unique identifiers. --
- 105. (new) The system of claim 98, the server computer further comprising seventh program instructions for, based on the data, deciding to exclude the first component from the generated document. --
- 106. (new) The system of claim 105, wherein fifth instructions call third instructions only if first component was previously displayed. --
- 107. (new) The system of claim 98, wherein fifth program instructions include eighth program instructions to analyze said data for user interactions with multiple components and to call third program instructions of multiple components as necessary. --
- 108. (new) The system of claim 107, wherein components include ninth instructions to check for errors and fifth instructions include tenth instructions to call ninth instructions of

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components as necessary and to suppress subsequent calling of third instructions in case of errors.--

-- 109. (new) The system of claim 98, further comprising eleventh program instructions for storing a data object in session memory representing at least one component instance included in a generated document, said eleventh program instructions for execution while dynamically generating a document. --

-- 110. (new) The system of claim 109, wherein third program instructions are encapsulated in a method of data objects, fifth program instructions including twelfth program instructions for identifying the data object that represents a component instance the user interacted with and for calling said method of said data object as necessary. --

-- 111. (new) The system of claim 110, further including thirteenth instructions for deciding based on said data to include more than one instance of a component into the generated document. --

-- 112. (new) The system of claim 109, further comprising twelfth program instructions for assigning a unique identifier to the first component instance, for associating the unique identifier with the data object, and for including the unique identifier into the generated document, said twelfth program instructions for execution while dynamically generating a document . --

-- 113. (new) The system of claim 112, wherein fifth program instructions analyze said data for unique identifiers and include thirteenth instructions for identifying the associated data object.. --

-- 114. (new) A system for displaying dynamically generated documents in a data network coupling a server computer to a client computer, wherein the client computer has a first software program including first program instructions for generating a request to obtain at least one

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generated document from the server computer and for displaying the generated document, comprising:

a plurality of components for execution on the server, at least one of the components including first features to cooperate with an editor in editing said component and second program instructions to generate browser code, and

third program instructions on the server for, based on the data contained in a request initiated by the client computer, generating generated documents for transfer to the client computer, thereby calling second program instructions of components. --

-- 115. (new) The system of claim 114 wherein first features include fourth program instructions for passing information to the editor.--

-- 116. (new) The system of claim 115 wherein at least part of said information is collected during execution of the components on the server.—

-- 117. (new) The system of claim 115 wherein said information is transmitted from the server to the client.--

-- 118. (new) The system of claim 115 wherein said information includes attributes of said component.--

-- 119. (new) The system of claim 114 wherein first features include fifth instructions that display additional editing features of the component during editing. --

-- 120. (new) The system of claim 119 wherein said editing features include handles.—

-- 121. (new) The system of claim 114 wherein first features include an extension for use by the editor, said extension for enabling editing of the components attributes. —

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- 122. (new) The system of claim 121 wherein said extension is a page for editing components attributes. --
- 123. (new) The system of claim 114 wherein components are denoted on document templates using tag syntax, whereby the tag name identifies a component. --
- 124. (new) The system of claim 114 containing at least one component wherein second program instructions are used to display the component during editing and during normal use. --
- 125. (new) A method for editing an application that is built using components and that operates by generating documents comprising the steps of:
  - running the application, thereby generating a generated document,
  - displaying a view of the generated document,
  - selecting a component by clicking on selected portions of said view,
  - identifying the selected component in the source code of the application,
  - initiating a modification function modifying the source code of the application. --
- 126. (new) The method of claim 125 wherein the running step and the displaying step are repeated after applying a modification function. --
- 127. (new) The method of claim 125 further comprising collecting edit information for use by the identifying step. --